

*Supplementary Material and Figures to*

**Crystal structure of the protein core of translation initiation factor IF2 in apo, GTP and GDP forms**

*Angelita Simonetti<sup>1</sup>, Stefano Marzi<sup>2</sup>, Attilio Fabbretti<sup>3</sup>, Isabelle Hazemann<sup>1</sup>, Lasse Jenner<sup>1</sup>, Alexandre Urzhumtsev<sup>1,4</sup>, Claudio O. Gualerzi<sup>3</sup> and Bruno P. Klaholz<sup>1\*</sup>*

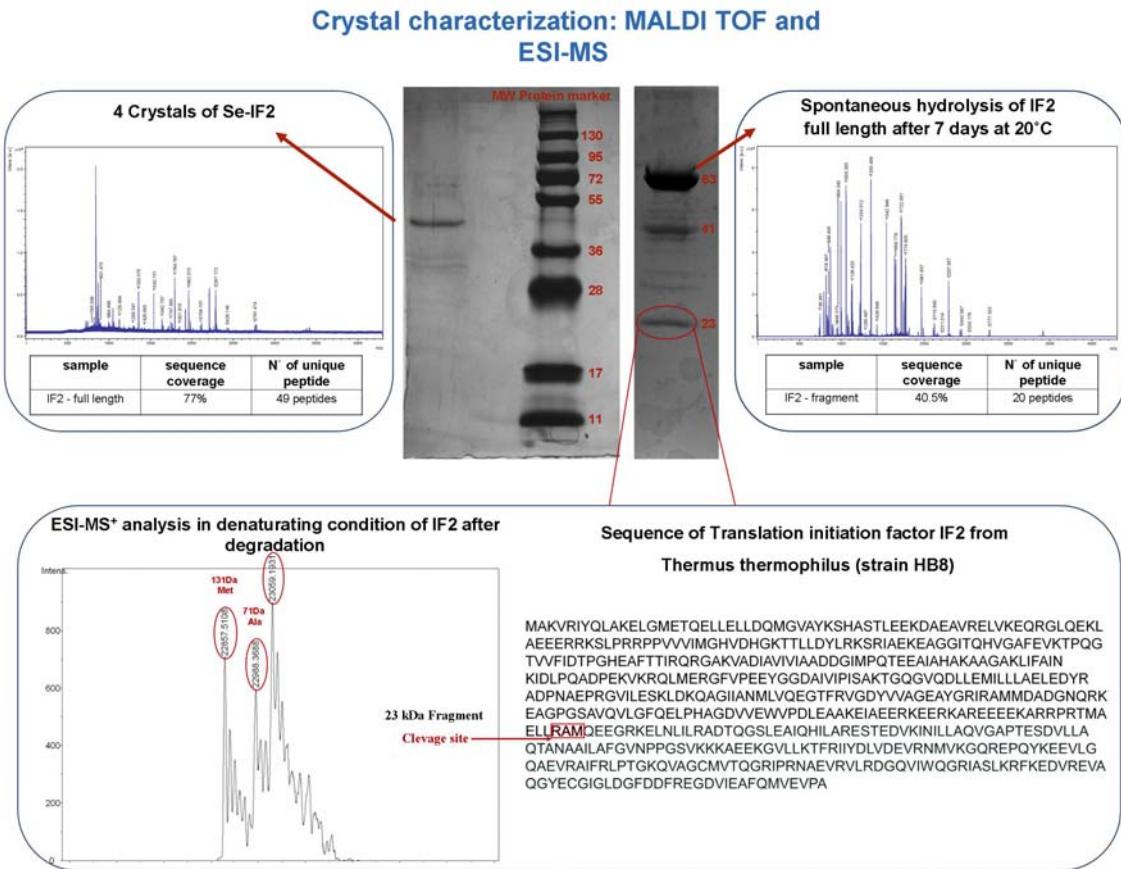
<sup>1</sup> IGBMC (Institute of Genetics and of Molecular and Cellular Biology), Department of Integrative Structural Biology, Centre National de la Recherche Scientifique (CNRS) UMR 7104 / Institut National de la Santé de la Recherche Médicale (INSERM) U964 / Université de Strasbourg, 1 rue Laurent Fries, 67404 Illkirch, France.

<sup>2</sup> Architecture et Réactivité de l'ARN, UPR 9002 CNRS, IBMC (Institute of Molecular and Cellular Biology), 15 rue R. Descartes, 67084 Strasbourg, France; Université Louis Pasteur de Strasbourg, Strasbourg, F-67000 France.

<sup>3</sup>Laboratory of Genetics, Department of Biosciences and Biotechnology, University of Camerino, 62032 Camerino (MC), Italy.

<sup>4</sup>Université de Lorraine, Physical Department, Vandoeuvre-lès-Nancy, 54506, France.

\*To whom correspondence should be addressed. [klaholz@igbmc.fr](mailto:klaholz@igbmc.fr), Tel. ++33 388655755; FAX ++33 388653276



## Characterization of IF2

The characterization of crystal content by MALDI-TOF and ESI-MS<sup>+</sup> analysis in denaturing conditions of IF2 after degradation revealed that the C-terminal part of IF2 got cleaved off during the crystallization process at position 363 close to a known protease site (residues ~362-365; Szkaradkiewicz, K, Zuleeg, T, Limmer, S, and Sprinzl M., 2000. Interaction of fMet-tRNA<sup>fMet</sup> and fMet-AMP with the C-terminal domain of *Thermus thermophilus* translation initiation factor 2. *Eur. J. Biochem.* 267, 4290-4299). Proteolysis also occurs in solution and is visible after one week at 4°C. To our knowledge such cleavage is not known for elongation factors.

**Suppl. Fig. S1**